



**CENTRALBIDDING**  
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**SOQ 24-022 Provide Professional Soils Investigation Services for the  
Department of Public Works**  
Jefferson Parish Government

Project documents obtained from [www.CentralBidding.com](http://www.CentralBidding.com)

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## **Technical Evaluation Committee (TEC) Questionnaire**

### **Instructions**

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- **The TEC Questionnaire should be completely filled out. Complete and attach ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.**
- Questionnaire must be signed by an authorized representative of the Firm. Failure to sign the questionnaire shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- All subcontractors must be listed in the appropriate section of the Questionnaire. Each subcontractor must provide a complete copy of the TEC Questionnaire, applicable licenses, and any other information required by the advertisement. Failure to provide the subcontractors' complete questionnaire(s), applicable licenses, and any other information required by the advertisement shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

## TEC Professional Services Questionnaire

**A. Project Name and Advertisement Resolution Number:**

SOQ #24-022  
Provide Professional Soils Investigation Services for the Department of Public Works  
Resolution No. 144325

**B. Firm Name & Address:**

Ardaman & Associates, Inc.  
101 Teal Street  
St. Rose, LA 70087

**C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:**

Robert Rousset, P.E.  
Vice President | Regional Manager  
RRousset@ardaman.com  
(504) 835-2593

**D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.**

Robert Rousset, P.E.  
Vice President | Regional Manager  
RRousset@ardaman.com  
(504) 835-2593

**E. Please provide the number of employees whose primary function corresponds with each category:**

<u>6</u> Administrative	<u>    </u> Estimators	<u>    </u> Specification Writers
<u>    </u> Architects (Licensed)	<u>1</u> Geologists	<u>    </u> Structural Engineers
<u>    </u> Chemical Engineers	<u>8</u> Geotechnical Engineers	<u>    </u> Graduate Engineers
<u>    </u> Civil Engineers	<u>    </u> Interior Designers	<u>    </u> Project Managers
<u>5</u> Construction Inspectors	<u>    </u> Landscape Architects	<u>    </u> Clerical
<u>    </u> Ecologists	<u>    </u> Land Surveyor	<u>    </u> Grant/Funding Specialist
<u>    </u> Electrical Engineers	<u>    </u> Mechanical Engineers	<u>    </u> Sanitary Engineers
<u>7</u> Engineer Intern	<u>    </u> Environmental Engineers	
<u>    </u> Professional Land Surveyors		<u>27</u> <b>TOTAL</b>

**F. Is this submittal by a JOINT-VENTURE? Please check: YES                      NO ☒**

**If marked "No" skip to Section I. If marked "yes" complete Sections G-H.**



## TEC Professional Services Questionnaire

**G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.**

1. N/A

2. N/A

**H. Has this JOINT-VENTURE previously worked together? Please check:**

YES

NO

N/A

**I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.**

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2.		
3.		

**J. Please specify the total number of support personnel that may assist in the completion of this Project:**

65



## TEC Professional Services Questionnaire

**K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.**

### **PROFESSIONAL IN CHARGE OF PROJECT:**

**Name & Title:**

Robert Rousset, P.E.  
Vice President | Regional Manager

**Project Assignment:**

Program Manager / Geotechnical Engineer

**Name of Firm with which associated:**

Ardaman & Associates, Inc.

**Years' experience with this Firm:**

18

**Education: Degree(s)/Year/Specialization:**

B.S. / 2008 / Civil Engineering

**Active registration: Year first registered/discipline:**

2014 / Civil

**Other experience and qualifications relevant to the proposed Project:**

**I-49, SEGMENT J, Caddo Parish, LA, SP No. H.003886.5 (2012), *Project Manager*.** Mr. Rousset was responsible for setting up boring locations, coordinating field activities, assigning lab testing, reviewing laboratory test results, classifying soil types based on laboratory testing, and compiling soil boring logs in the LADOTD format.

**JEFFERSON PARISH RELIABILITY PROJECT, Jefferson and Plaquemines Parishes, LA (2019), *Project Manager*.** The project consisted of the improvements to Entergy's Westwego, Barataria, and Alliance Substations and associated applicable Transmission Lines to a depth of 100 feet below existing ground surface.

**CAMINADA HEADLANDS, Jefferson and Lafourche Parishes, LA (2018), *Project Manager*.** Ardaman performed the Geotechnical Investigation for the Caminada Headlands Back Barrier Marsh Creation Increment II Project (BA-193). The project consisted of the creation and nourishment of approximately 444 acres of marsh.



## TEC Professional Services Questionnaire

### **K. PROFESSIONAL IN CHARGE OF PROJECT**

*(Robert Rousset, P.E. continued):*

#### **Other experience and qualifications relevant to the proposed Project:**

**MID-BRETON SEDIMENT DIVERSION** Plaquemines Parish, LA, CPRA (Sub to Stantec), (Ongoing) *Project Manager*. Mr. Rousset serves as Project Manager for CPRA's Mid-Breton Sediment Diversion Project which will reconnect the Mississippi River to the deteriorating deltaic wetlands in the Breton Sound Basin. This project includes a control structure in the mainline levee along the Mississippi River. The project also includes an associated river inlet channel, a conveyance channel across the protected landside area, and a back structure through the existing hurricane surge protection levee.

**BAYOU LAFOURCHE MARSH CREATION**, Lafourche Parish, LA, T. Baker Smith, (2019) *Project Manager*. This project will create approximately 200 acres of new marsh in south-central Lafourche Parish using material dredged from Bayou Lafourche. Mr. Rousset served as Project Manager for this project, in this capacity he coordinates all fieldwork, laboratory testing, and engineering analyses.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Mark Woodward, P.E. Principal Engineer
<b>Project Assignment:</b>
Senior Geotechnical Engineer
<b>Name of Firm with which associated:</b>
Ardaman & Associates, Inc.
<b>Years' experience with this Firm:</b>
6
<b>Education: Degree(s)/Year/Specialization:</b>
M.S. / 2019 / Risk Management M.E. / 1986 / Civil Engineering B.S. / 1982 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
1991 / Civil
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>MISSISSIPPI RIVER AND TRIBUTARIES PROJECT – GEOTECHNICAL INVESTIGATION, DESIGN AND CONSTRUCTION OVERSIGHT, (2018)</b> <i>Senior Geotechnical Engineer.</i> Mr. Woodward conducted or oversaw the review of existing geotechnical data and implementation of field investigation to obtain subsurface data, selection and reduction of laboratory testing, geotechnical engineering analyses, development of conclusions and recommendations, final report preparation and construction oversight for over 50 levee and floodwall projects on the Mississippi River and Atchafalaya Basin. Responsible for providing final geotechnical approval of 1,000 permits a year for construction activities on and around levees.</p> <p><b>LEEVE SAFETY PROGRAM, (2018)</b> <i>Levee Safety Program Manager.</i> Mr. Woodward served as the USACE New Orleans District Levee Safety Program Manager for over four years, responsible for Levee Evaluation Reports for Levee Certifications and the National Flood Insurance Program, Levee Inspection Reports on over 1,300 miles of levee on an annual basis, Risk Assessments and Communication for all levees in the district's jurisdiction; Was also responsible for final Section 408 permitting approval to ensure that construction activities do not increase risk or diminish function of levees and do not cause harm to the public. Teamed with flood risk management, led potential failure mode analysis, participated in probable failure mode analysis (PFMA), prepared event trees, oversaw and performed review of Risk Analysis (RA) reports for other Districts. Completed Post Baccalaureate Certificate in Risk Assessment and Management from Notre Dame of Maryland University in 2017 and completed requirements for master's degree in risk management in May 2019.</p> <p><b>HSDRRS, New Orleans Metro Area, LA (2018)</b> <i>Supervisory Geotechnical Engineer.</i> Mr. Woodward provided Senior Consistency Review for Geotechnical work product performed by A/E firms and other Corps Districts for the entire Hurricane Storm Surge Risk Reduction System. He was also responsible for the geotechnical design of 15 miles of HSDDRS from Bayou Segnette to Harvey Canal. Included use of numerical modeling programs like Plaxis and Flac using various constitutive clay and sand models as well as Slope/W.</p>





## TEC Professional Services Questionnaire

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

*(Mark Woodward, P.E. continued):*

#### **Other experience and qualifications relevant to the proposed Project:**

**CALCASIEU SHIP CHANNEL SALINITY CONTROL MEASURES PLANNING & FEASIBILITY PHASE (CS-0065), Cameron & Calcasieu Parish, LA (2019)***Principal Geotechnical Engineer.* The project aimed to limit saltwater intrusion and reduce land loss across various bayous, marshes, and lakes within the vicinity of the Calcasieu Ship Channel (CSC), located across Cameron and Calcasieu Parish. Stretching across 20 miles, the project consisted of various sill structures, erosion control measures, and channelization structures. Mr. Woodward served as Principal Geotechnical Engineer for this project; in this capacity he reviewed all fieldwork, laboratory testing, engineering analyses, and Geotechnical Report.

**HOUMA NAVIGATION CANAL – MITIGATION MARSH CREATION, Terrebonne Parish, LA (Ongoing)***Principal Geotechnical Engineer.* This project will create approximately 194 acres of new marsh using hydraulically dredged material from the Houma Navigation Canal. The project area will be confined by earthen containment dikes. Mr. Woodward serves as Principal Geotechnical Engineer for this project; in this capacity he reviews all fieldwork, laboratory testing, engineering analyses, and Geotechnical Report.

**WEST FOURCHON MARSH CREATION & NOURISHMENT (TE-134) Lafourche Parish, LA (2022)***Principal Geotechnical Engineer.* This project created approximately 302 acres of saline intertidal marsh and nourished about 312 acres of emergent marsh using material dredged from the Gulf of Mexico. The project area was confined by earthen containment dikes and other features along deep-water channels. Mr. Woodward served as Principal Geotechnical Engineer for this project; in this capacity he reviewed all fieldwork, laboratory testing, engineering analyses, and Geotechnical Reports.

**CAMINADA HEADLANDS BACK BARRIER MARSH CREATION INCREMENT II (BA-193), Lafourche Parish, LA (2018)***Principal Geotechnical Engineer.* This project created approximately 444 acres of emergent marsh using material dredged from the Gulf of Mexico. The project area was confined by earthen containment dikes. Mr. Woodward served as Principal Geotechnical Engineer for this project; in this capacity he reviewed all fieldwork, laboratory testing, engineering analyses, and Geotechnical Report.

**NO NAME BAYOU MARSH CREATION & NOURISHMENT (CS-78), Cameron Parish, LA (2019)***Principal Geotechnical Engineer.* The No Name Bayou Marsh Creation and Nourishment project will create approximately 502 acres of marsh, 10 acres of creeks/ponds, and nourish 21 acres of existing marsh. Marshland will be created and nourished by hydraulically dredging select fill material and placing it within a marsh creation area, which will have earthen containment dikes around the perimeter to keep this material in place as it settles out of suspension and builds land back up. Mr. Woodward serves as Principal Geotechnical Engineer for this project; in this capacity he provides oversight for fieldwork coordination, laboratory testing, and engineering analyses; analyses included slope stability analyses for the containment dikes and closure structures, determination of cut-to-fill ratios, determination of consolidation settlements for the subsurface soils, and determination of self-weight consolidation for the borrow material.

**MID-BRETON SEDIMENT DIVERSION Plaquemines Parish, LA (2018 to Present)***Senior Geotechnical Engineer.* Mr. Woodward serves as the Geotechnical Engineer of Record for CPRA's Mid-Breton Sediment Diversion Project which will reconnect the Mississippi River to the deteriorating deltaic wetlands in the Breton Sound Basin. This project includes a control structure in the mainline levee along the Mississippi River. The project also includes an associated river inlet channel, a conveyance channel across the protected landside area, and a back structure through the existing hurricane surge protection levee.

**MID-BARATARIA SEDIMENT DIVERSION CMAR TEAM, Plaquemines Parish, LA (2018 to Present)***Senior Geotechnical Engineer.* Mr. Woodward serves as the senior geotechnical engineer on the Construction Manager At-Risk (CMAR) services for the Mid-Barataria Diversion Project. The Mid-Barataria Sediment Diversion will provide sediment, water and nutrients from the Mississippi River to the Barataria Basin to build, maintain, and sustain wetlands. The Mid-Barataria Sediment Diversion Project which will reconnect the Mississippi River to the deteriorating deltaic wetlands in the Mid-Barataria Basin. This project includes a control structure in the mainline levee along the Mississippi River. The project also includes an associated river inlet channel, a conveyance channel across the protected landside area, and a back structure through the existing hurricane surge protection levee. Mr. Woodward Provided geotechnical input into dewatering, pump platforms, borrow suitability, stability, seepage and settlement for interim Mississippi River Levee, and designed slope for 50-foot-deep dry excavation.

**WEST SHORE PUMP STATIONS, United States Army Corps of Engineers, St. Charles Parish, LA (2020 to Present)***Principal Engineer.* The West Shore Lake Pontchartrain Project consists of a new HSDRRS-DG levee along the west shore of Lake Pontchartrain for flood protection of the local communities. The new construction will include earthen levees, T-Walls, pump stations, and canals. Mr. Woodward oversaw the field investigation and laboratory testing in accordance with U.S. Army Corps of Engineers standards and manages all engineering analyses, which consists of slope stability, seepage, settlement, unbalanced load analyses, and pile capacities to date.

**ENTERGY MARSH CREATION, Lafourche Parish, LA (2020 to 2021)***Principal Geotechnical Engineer.* The project consisted of approximately 4 acres of marsh creation and mitigation on the south side of the existing Tidewater Canal along Bayou Lafourche in Lafourche Parish, Louisiana. The project was comprised of two (2) potential borrow areas and six (6) marsh creation and mitigation areas. The source material from the borrow areas will be hydraulically dredged from the borrow site(s) and placed within the individual marsh creation and mitigation areas. Mr. Woodward served as Principal Geotechnical Engineer for this project; in this capacity he reviewed all fieldwork, laboratory testing, engineering analyses, and Geotechnical Report.





## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Peter Cali, Ph.D., P.E. Senior Geotechnical Engineer
<b>Project Assignment:</b>
Senior Geotechnical Engineer
<b>Name of Firm with which associated:</b>
Ardaman & Associates, Inc.
<b>Years' experience with this Firm:</b>
7
<b>Education: Degree(s)/Year/Specialization:</b>
Ph.D. / 1995 / Civil and Environmental Engineering M.S.C.E. / 1977 / Civil Engineering B.S.C.E. / 1973 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
1977 / Civil
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>MID-BARATARIA SEDIMENT DIVERSION CMAR PROJECT, CPRA, Plaquemines Parish, LA (Ongoing)</b><i>Seepage Barrier Expert.</i> Dr. Cali conducts independent technical review of the design and construction means and methods, offering expert consultation to ensure that all work is compliant with best industry practice. He reviews contractor submittals and Value Engineering proposals for technical adequacy and reviews construction for compliance with the specifications, and he advised the District on technical issues.</p> <p><b>NEW ORLEANS AND VICINITY HURRICANE RISK REDUCTION SYSTEM, USACE Hurricane Protection Office, New Orleans, LA</b> <i>USACE Consultant.</i> Managed contract in-house engineering professionals and AE designers in support of engineering and construction for the improvement of hurricane protection levees to the 100 year project-grade and to HSDRRS design standards, including LPV-111, LPV-109, IHNC Lake Borgne Surge Barrier, and the Seabrook Floodgate Complex. He established and revised design criteria for levees and floodwalls, and was part of a Value Engineering "Tiger" Team that saved \$50M on the Lake Borgne Surge Barrier and \$60M on LPV-111.</p> <p><b>COMITE RIVER DIVERSION AND LILLY BAYOU CONTROL STRUCTURE, USACE/State of Louisiana, Zachary, LA</b> <i>Lead Geotechnical Engineer.</i> Dr. Cali managed the subsurface investigation and testing program; oversaw the foundation design for the Lilly Bayou Control Structure and four associated drop structures; and analyses for design of the Comite Diversion Channel slopes.</p>



## TEC Professional Services Questionnaire

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

*(Peter Cali, Ph.D., P.E. continued):*

#### **Other experience and qualifications relevant to the proposed Project:**

**WEST POINTE-A-LA-HACHE FRESHWATER DIVERSION SIPHON, USACE/State of Louisiana, Plaquemines Parish, LA** *Lead Geotechnical Engineer.* Dr. Cali managed the subsurface investigation and testing program and the foundation design for installation of eight large diameter siphon lines over the Mississippi River Levee.

**HOUMA NAVIGATION CANAL LOCK, CPRA, Houma, LA** *Senior Geotechnical Consultant.* As a consultant to the subcontracted geotechnical engineering firm, Dr. Cali provides technical review and geotechnical design guidance for the geotechnical aspects of the project. The purpose of this project is to design the replacement lock and floodwall to upgrade the Houma Navigation Canal flood protection to withstand the 100-year storm event.

**HURRICANE & STORM DAMAGE RISK REDUCTION SYSTEM, USACE, NEW ORLEANS DISTRICT, New Orleans, LA** *Lead Geotechnical Engineer.* Post-Hurricane Katrina, USACE Task Force Guardian and Hurricane Protection Office were charged with the reconstruction of the hurricane protection system and new construction of the 100-year storm Hurricane and Storm Damage Risk Reduction System. Dr. Cali served as the Lead Geotechnical Engineer for TFG & HPO, responsible for administration of dozens of multi-million dollar contracts performed by private industry for geotechnical exploration, testing, design, risk assessment and construction of the system of levees, floodwalls, structures, and pump stations. The purpose of this project was to improve the grade, performance, and stability of the levees, floodwalls, and pumping stations within the Hurricane & Storm Damage Risk Reduction system.

**CHIEF, DAMS, LEVEES, AND CHANNELS SECTION, USACE NEW ORLEANS DISTRICT, GEOTECHNICAL BRANCH New Orleans, LA (1997-2006)** *USACE Design Section Chief and Dam Safety Program Manager.* Directed 16 in-house professionals and contract resources for subsurface investigation and testing, and for geotechnical and geo-environmental design for the New Orleans District; responsible for the design and inspection of the District's dams, levee, and floodwalls; served as the District's Dam Safety Program Manager

**HERBERT HOOVER DIKE, GAP CLOSURE AND CUTOFF WALL EXTENSION, USACE JACKSONVILLE DISTRICT, Lake Okeechobee, FL (2007-2012;2017-Present)** *Seepage Barrier Expert.* Dr. Cali conducts independent technical review of the design and construction means and methods, offering expert consultation to ensure that all work is compliant with best industry practice. He reviews contractor submittals and Value Engineering proposals for technical adequacy and reviews construction for compliance with the specifications, and he advised the District on technical issues

**ADDICKS & BARKER DAMS, NEW OUTLET STRUCTURES & SEEPAGE CUTOFF WALL, Houston, TX (2016-Present)** *Dam Safety and Seepage Cutoff Wall Expert Consultant.* Dr. Cali conducts independent review of the Corps' design and the contractor's construction means and methods, offering expert consultation on seepage cutoff wall construction, earthwork construction and other geotechnical matters. He proposed to the Corps a change to the cement bentonite design mix and an alternative method for calculating the hydraulic conductivity of the cutoff wall to break a contractual impasse that was resulting in non-compliance with the cutoff wall specifications.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Robert Jewell, P.E. Vice President   Branch Manager
<b>Project Assignment:</b>
Project Engineer
<b>Name of Firm with which associated:</b>
Ardaman & Associates, Inc.
<b>Years' experience with this Firm:</b>
17
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. / 2009 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2013 / Civil
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>HOUMA NAVIGATION CANAL LOCK COMPLEX - GEOTECHNICAL INVESTIGATION, Terrebonne Parish, LA (2015 - Ongoing) <i>Project Engineer.</i></b> Mr. Jewell assisted in performing GRL WEAP analyses for various pile foundation types.</p> <p><b>RABBIT ISLAND RESTORATION PROJECT, Cameron Parish, LA (2014) <i>Project Manager.</i></b> Project consisted of the restoration of approximately 200 acres of pelican nesting habitat in south-central Cameron Parish using hydraulically dredged material from a nearby borrow site within the Calcasieu Ship Channel. Mr. Jewell coordinated and managed the field crew to complete the geotechnical field investigation. He also performed internal technical review of design analyses and reports.</p> <p><b>MADISON BAY MARSH CREATION &amp; TERRACING (TE-51), CPRA, Terrebonne Parish, LA (2012) <i>Project Engineer.</i></b> The Madison Bay Marsh Creation and Terracing project (Alternative I) consisted of the creation of approximately 450 acres of emergent marsh with material hydraulically dredged from Madison Bay. Ardaman initially conducted 9 borings to a depth of 60 feet and 7 borings to a depth of 40 feet utilizing an airboat-mounted drill rig with GPS data collected for each boring location. Ardaman also performed the laboratory tests (undrained shear strength, classification, and consolidation tests) in accordance with ASTM standards. Engineering analyses were performed with regard to earthen containment levee and terrace design that included containment dike analysis, containment dike time to settle to average marsh elevation, and terracing analysis. Recommendations included maximum construction elevation, acceptable side slopes, acceptable crown widths, consolidation during construction, settlement curves, slope stability analysis, cut/fill ratio for construction, and construction sequencing. Mr. Jewell assisted with design analyses for the project.</p>



## TEC Professional Services Questionnaire

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

*(Robert Jewell, P.E. continued):*

#### **Other experience and qualifications relevant to the proposed Project:**

**LA 1 – PHASE 1, SP No. 700-29-0112, Onsite, Lafourche Parish, LA (2003 – 2011) Project Engineer.** Mr. Jewell served in the field as geotechnical engineer for this long-term project in coastal Louisiana. He was onsite 24 hours for a rotating shift of 7 days on/off during installation of piles for the new elevated highway. The project consisted of driving 24-inch square PPC piles with mechanical splices up to 170 feet in length. A minimum of one pile per bridge bent was selected for initial drive monitoring and restrike monitoring with the PDA. Several hundred PDA monitoring events were performed on this project. Mr. Jewell's experience with this project consists of conducting dynamic monitoring using the Pile Driving Analyzer during initial drive and restrikes, monitoring driving stresses and issuing recommendations in the field when necessary, performing CAPWAP analyses to confirm pile capacity, reviewing drive logs, and supervising field technicians.

**COLE'S BAYOU MARSH RESTORATION (TV-63), Vermillion Parish, LA (2013) Project Engineer.** The Cole's Bayou Marsh Restoration project consisted of the creation of approximately 365 acres of brackish marsh, the nourishment of approximately 53 acres of existing brackish marsh, and the increase of freshwater and sediment inflow into the project area. Mr. Jewell served as Project Engineer and performed internal technical review of design analyses and reports.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Megan Bourgeois, P.E. Assistant Branch Manager   Project Engineer
<b>Project Assignment:</b>
Project Engineer & Laboratory QA Officer
<b>Name of Firm with which associated:</b>
Ardaman & Associates, Inc.
<b>Years' experience with this Firm:</b>
18
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. / 2006 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2011 / Civil
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>NO NAME BAYOU MARSH CREATION &amp; NOURISHMENT (CS-78), Cameron Parish, LA (2019) <i>Project Engineer/Lab QA Officer.</i></b> The No Name Bayou Marsh Creation and Nourishment project will create approximately 502 acres of marsh, 10 acres of creeks/ponds, and nourish 21 acres of existing marsh. Marshland will be created and nourished by hydraulically dredging select fill material and placing it within the marsh creation area, which will have earthen containment dikes around the perimeter in order to keep this material in place as it settles out of suspension and rebuilds land. Ms. Bourgeois serves as a project engineer and provides oversight of the laboratory testing program for this project.</p> <p><b>LOUISIANA LIVING SHORELINE DEMONSTRATION, CPRA, St. Bernard Parish, LA (2021) <i>Project Engineer/Lab QA Officer.</i></b> Ardaman served as the geotechnical consultant for this project. The goal was to establish a living shoreline in the defined project area to serve as a first line of defense to aid in the prevention and reduction in the rate of erosion of the coastal marshes that sustain the Lower Biloxi Marsh. Ms. Bourgeois served as project engineer in charge of quality assurance of the extensive laboratory testing program for this project.</p> <p><b>FRONT RIDGE CHENIER TERRACING, COASTAL LOUISIANA PHASE I ENGINEERING &amp; DESIGN (TV-60), Vermillion Parish, LA (2012) <i>Project Engineer/Lab QA Officer.</i></b> The objective of this CDBG-funded project, which stretched along the south side of Front Ridge Road for 1.6 miles, was to create terracing to reduce wave fetch, reestablish emergent marsh and prevent further deterioration to the shoreline of the Front Ridge community. Ms. Bourgeois served as a project engineer and provided oversight of the extensive laboratory testing program for this project. She assisted in development of a modified consolidation testing procedure in order to capture more refined consolidation curves necessary in accurately modeling the settlement behavior of the sensitive materials for this project.</p>



## TEC Professional Services Questionnaire

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

*(Megan Bourgeois, P.E. continued):*

#### **Other experience and qualifications relevant to the proposed Project:**

**COLE'S BAYOU MARSH RESTORATION (TV-63), Vermillion Parish, LA (2013) Project Engineer.** The Cole's Bayou Marsh Restoration project consisted of the creation of approximately 365 acres of brackish marsh, the nourishment of approximately 53 acres of existing brackish marsh, and the increase of freshwater and sediment inflow into the project area. Ms. Bourgeois served as principal quality assurance engineer over report development and analyses. She also assisted in development of soil characterization profiles used in design.

**MADISON BAY MARSH CREATION & TERRACING (TE-51), Terrebonne Parish, LA, (2012) Project Engineer.** The Madison Bay Marsh Creation and Terracing project (Alternative I) consisted of the creation of approximately 450 acres of emergent marsh with material hydraulically dredged from Madison Bay and the construction of approximately 50,000 linear feet of earthen terraces throughout the proposed project area. Ms. Bourgeois served as quality assurance engineer over report development and analyses. She also assisted in development and presentation of the final project update.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>  Daniel M. Cimino, P.E. Assistant Branch Manager   Project Engineer
<b>Project Assignment:</b>  Project Engineer
<b>Name of Firm with which associated:</b>  Ardaman & Associates, Inc.
<b>Years' experience with this Firm:</b>  8
<b>Education: Degree(s)/Year/Specialization:</b>  M.S. / 2021 / Civil Engineering B.S. / 2016 / Civil and Environmental Engineering
<b>Active registration: Year first registered/discipline:</b>  2021 / Civil
<b>Other experience and qualifications relevant to the proposed Project:</b>  <p><b>HOUMA NAVIGATION CANAL LOCK COMPLEX – GEOTECHNICAL INVESTIGATION, 15% DESIGN, 60% DESIGN, PILE LOAD TEST PROGRAM, Terrebonne Parish, LA (Ongoing) Assistant Project Engineer.</b> The Houma Navigation Canal Lock Complex consists of a new 800 ft. long lock system and upgrades to the existing 300 ft. wide barge-type floodgate. New construction will include T-Walls, gate monoliths, braced IHNC-type floodwalls, I-Walls, nose piers, dredging, and mitigation. Ardaman serves as the geotechnical consultant for this project. The project consists of replacing a navigation canal with a lock structure to help prevent marsh erosion due to saltwater intrusion. To date, Mr. Cimino has assisted in the laboratory sample processing and testing, performing slope stability analyses, and writing reports.</p> <p><b>WEST FOURCHON MARSH CREATION &amp; NOURISHMENT (TE-134), Lafourche Parish, LA (2022) Project Engineer.</b> Project will create approximately 302 acres of saline intertidal marsh and nourish about 312 acres of emergent marsh using material dredged from the Gulf of Mexico. The project area will be confined by earthen containment dikes and other features along deep-water channels. Currently, an alternative borrow source for nourishment material is being explored. Mr. Cimino assisted in coordinating fieldwork and laboratory testing coordination as well as performing required analyses.</p> <p><b>MID-BRETON SEDIMENT DIVERSION, CPRA, Plaquemines Parish, LA (Ongoing) Project Engineer.</b> The project consists of CPRA's Mid-Breton Sediment Diversion Project, which will reconnect the Mississippi River to the deteriorating deltaic wetlands in the Breton Sound Basin. This project includes a control structure in the mainline levee along the Mississippi River. The project also includes an associated river inlet channel, a conveyance channel across the protected landside area, and a back structure through the existing hurricane surge protection levee. To date, Mr. Cimino's roles have included assisting in coordination of permitting and fieldwork efforts, while also assisting in management of performing laboratory testing.</p>





## TEC Professional Services Questionnaire

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

*(Daniel M. Cimino, P.E. continued):*

#### **Other experience and qualifications relevant to the proposed Project:**

**MID-BARATARIA SEDIMENT DIVERSION CMAR PROJECT, CPRA, Plaquemines Parish, LA (Ongoing) Project Engineer.** The Mid-Barataria Sediment Diversion will provide sediment, water, and nutrients from the Mississippi River to the Barataria Basin to build, maintain, and sustain wetlands. Mr. Cimino performed settlement, seepage, and slope stability analyses on the Construction Management At-Risk (CMAR) services for the Mid-Barataria Diversion Project.

**WEST SHORE LAKE PONTCHARTRAIN PUMP STATIONS AND STRUCTURES, St. Charles, St. John the Baptist, and St. James Parishes, LA (2020-Present) Project Engineer.** The West Shore Lake Pontchartrain Project consists of a new HSDRRS-DG levee along the west shore of Lake Pontchartrain for flood protection of the local communities. The new construction will include earthen levees, T-Walls, pump stations, and canals. Thus far, Mr. Cimino's involvement on this project includes performing slope stability, settlement, strength gain, unbalanced load analyses, and axial pile capacity analyses.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Chris Sparnecht Construction Materials Testing (CMT) Manager / Geotechnical Laboratory Manager
<b>Project Assignment:</b>
Laboratory Manager
<b>Name of Firm with which associated:</b>
Ardaman & Associates, Inc.
<b>Years' experience with this Firm:</b>
3
<b>Education: Degree(s)/Year/Specialization:</b>
High School Diploma
<b>Active registration: Year first registered/discipline:</b>
2012 / ACI Aggregate Testing Technician – Level 1 2010 / ACI Concrete Strength Testing Technician 2012 / ACI Concrete Laboratory Testing Technician - Level 1 2018 / ACI Aggregate Base Testing Technician Level 1
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>INDUSTRIAL FACILITY – CONFIDENTIAL CLIENT, Port Allen, LA (2023) Lab Technician.</b> Ardaman's St. Rose office was awarded this project in late 2022. This project consisted of Geotechnical Field Exploration and Subsurface evaluation, inclusive of new soil borings, CPTs, and stability analyses, to submit to the USACE in effort to mitigate the levee and bank stabilization efforts required for minimal impact of refinery operations. Lab testing was performed in accordance with ASTM Standards for the following test methods: Unconfined Compressions Tests, Unconsolidated/Undrained Compression Tests, Consolidation Tests, Atterberg Limits, Organic Content, Moisture Content, and #200 washes.</p> <p><b>HAPPY JACK TO NAIRN, USACE PHYLWAY CONSTRUCTION, Plaquemine, LA (2022) Project Manager/Lab Technician.</b> Ardaman's St. Rose office was awarded this project in early 2019. The project consists of Construction Materials Testing for an USACE approved levee located in Plaquemines parish, LA. Lab testing was performed in accordance with ASTM Standards for the following test methods: Atterberg Limits, Organic Content, Moisture Content, and #200 washes.</p> <p><b>NOLA DPW PROJECT NO. PW19912, PONTCHARTRAIN PARK, New Orleans, LA (2021) Project Manager/Lab Technician.</b> Ardaman's St. Rose office was awarded this project in early 2020. The project consists of Construction Materials Testing for various streets located in New Orleans, LA. This project consists of density testing, concrete testing, and laboratory testing of various materials. Lab testing was performed in accordance with ASTM Standards for the following test methods: Standard and Modified Proctors, Fine and Course Sieve Analysis, #200 washes, and Moisture Content.</p> <p><b>NOLA DPW PROJECT NO. PW19912, LOWER NINTH WARD GROUP D, New Orleans, LA (2022) Project Manager.</b> Ardaman's St. Rose office was awarded this project in mid-2021. The project consists of Construction Materials Testing for various streets as well as water and drainage lines throughout New Orleans, LA. This</p>



## TEC Professional Services Questionnaire

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

*(Chris Sparnecht continued):*

#### **Other experience and qualifications relevant to the proposed Project:**

project consists of density testing, concrete testing, and laboratory testing of various materials. Lab testing was performed in accordance with ASTM Standards for the following test methods: Standard and Modified Proctors, Fine and Course Sieve Analysis, #200 washes, and Moisture Content.

**MSY Arrivals Roadway Imp & Pedestrian Bridge, Kenner, LA (2023) Lab Technician.** Ardaman's St. Rose office was awarded this project in mid-2023. This project consisted of Geotechnical Field Exploration and Subsurface evaluation, inclusive of new soil borings and CPTs. Lab testing was performed in accordance with ASTM Standards for the following test methods: Unconfined Compressions Tests, Unconsolidated/Undrained Compression Tests, Consolidation Tests, Atterberg Limits, Organic Content, Moisture Content, and #200 washes.

**Northwest Little Lake Marsh Creation, New Orleans, LA (2023) Lab Technician.** Ardaman's St. Rose office was awarded this project in mid-2023. This project consisted of Geotechnical Field Exploration and Subsurface evaluation, inclusive of new soil borings, and material analyses, to submit to CPRA in effort to determine if the existing soil is suitable for the creation of new marsh lands. Lab testing was performed in accordance with ASTM Standards for the following test methods: Unconfined Compressions Tests, Unconsolidated/Undrained Compression Tests, Consolidation Tests, Atterberg Limits, Organic Content, Moisture Content, and #200 washes.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Donald Anthony Senior Driller
<b>Project Assignment:</b>
Drilling Supervisor
<b>Name of Firm with which associated:</b>
Ardaman & Associates, Inc.
<b>Years' experience with this Firm:</b>
21
<b>Education: Degree(s)/Year/Specialization:</b>
High School Diploma
<b>Active registration: Year first registered/discipline:</b>
2023 / Louisiana Water Well Driller's License
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>LA 1, PHASE 1 AND PHASE 2, Lafourche Parish, LA (2012)</b><i>Senior Driller.</i> Mr. Anthony performed drilling and CPT services for a geotechnical investigation conducted in Louisiana coastal marshes utilizing a fleet of customized airboats. This project included over 100 boring and CPT sounding sample locations</p> <p><b>NO NAME BAYOU MARSH CREATION, Cameron Parish, LA (2014)</b><i>Senior Driller.</i> The No Name Bayou Marsh Creation and Nourishment project will create approximately 502 acres of marsh, 10 acres of creeks/ponds and nourish 21 acres of existing marsh. Marshland will be created and nourished by hydraulically dredging select fill material and placing it within a marsh creation area, which will have earthen containment dikes around the perimeter in order to keep this material in place as it settles out of suspension and builds land back up. Mr. Anthony was the Sr. Driller during the geotechnical investigation which included 3 inch diameter soil borings performed with an airboat mounted drill rig.</p> <p><b>CALCASIEU SHIP CHANNEL SALINITY CONTROL MEASURES (CS-65) PHASE LA, Calcasieu &amp; Cameron Parish, LA (2018)</b><i>Senior Driller.</i> The project aims to limit saltwater intrusion and reduce land loss across various bayous, marshes, and lakes within the vicinity of the Calcasieu Ship Channel (CSC), located across Cameron and Calcasieu Parish. Stretching across 20 miles, the project consists of various sill structures, erosion control measures, and channelization structures. Mr. Anthony was the Senior Driller during the geotechnical investigation which included over 30 boring and CPT locations performed from a jack up type barge, small spud barge, airboat, and marsh buggy drilling equipment.</p> <p><b>HOUMA NAVIGATION CANAL LOCK COMPLEX, Terrebonne Parish, LA (Ongoing)</b><i>Senior Driller.</i> Mr. Anthony was the Senior Driller during the geotechnical investigation, which included contacting landowners and acquiring documented access permission and utility location for the borings. The field investigation included performing CPTs and 5-inch piston sampler borings to depths of 150-250 ft. below water surface from a jack-up barge.</p>



## TEC Professional Services Questionnaire


<b>PROJECT NO. 1</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility</b>	
<p><b>West Fourchon Marsh Creation &amp; Nourishment (TE-134)</b> (Lafourche Parish, LA)</p> <p>Coastal Protection and Restoration Authority (CPRA) 150 Terrace Avenue Baton Rouge, LA 70802</p> <p>Katie Freer 225-342-4635 Katie.Freer@la.gov</p>	<p><i>Please See Below.</i></p>	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
<p>2023</p>	<p>N/A</p>	<p>\$355,000</p>

Project will create approximately 302 acres of saline intertidal marsh and nourish about 312 acres of emergent marsh using material dredged from the Gulf of Mexico. It is believed that the primary causes of land loss in the project area is due to the canals which cut across the project site, along with subsidence, sediment depravation and shoreline erosion. The project area will be confined by earthen containment dikes and other features along deep-water channels.

Ardaman completed a geotechnical investigation consisting of both soil borings and CPT soundings within the proposed marsh creation area. The laboratory testing phase was aimed at providing data for use in analyses such as settlement and stability analyses of marsh creation earthen containment dikes; consolidation settlement analysis of marsh fill area; cut-to-fill ratio for containment dikes and marsh fill area; and stability analyses for existing dikes to estimate required offset distances for containment dike borrow excavation.

It should be noted that Ardaman has worked with CPRA through GIS and the Port of Fourchon on investigating an alternative borrow source within Bayou Lafourche and adjacent Port slips. The supplemental field investigation was completed in 2021. The engineering has also been completed in regard to channel stability and reanalysis of the West Fourchon Marsh Creation Areas with the alternative borrow source.

*Rousset, Project Manager; Woodward, Sr. Geotech. Engr.; Comeaux, Asst. Proj. Engr.; Cimino, Proj. Engr.; Jewell, Proj. Engr.; Anthony, Sr. Driller*







## TEC Professional Services Questionnaire

**L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.**

### PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Jefferson Parish Reliability Projects (Jefferson and Plaquemines Parish, LA)</b>  Entergy Services, Inc. Justin Richard, P.E. 639 Loyola Avenue New Orleans, LA 70113 jrich18@entergy.com	The project consisted of the improvements to Entergy's Westwego, Barataria, and Alliance Substations and associated applicable Transmission Lines in Jefferson and Plaquemines Parish, Louisiana. Ardaman performed 20 soil borings within the footprint/alignment of the proposed improvements to the substations and associated applicable Transmission Lines to a depth of 100 feet below existing ground surface. Geotechnical laboratory testing was performed on selected samples collected from the soil borings during the investigation. All geotechnical tests were performed in accordance with the appropriate AASHTO and ASTM standards. Analyses were performed to characterize the geotechnical conditions at the site. In addition to describing the field and laboratory procedures and presenting the results, the report contained: Soil Boring Logs; Site preparation, grading, shallow excavation and trenching recommendations; Soil Resistivity test results; Deep drilled shaft and driven pile foundation recommendations; Drilled shaft compressions and uplift capacities; Driven timber (Class B) and concrete pile compression and uplift capacities; Bearing capacity and other shallow foundation recommendations; and Results of settlement analyses of foundations.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	N/A	\$139,382

### PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Galleria Lift Station Gravity Sewer Line (Metairie, LA)</b>  Jefferson Parish c/o GreenPoint Engineering Amer Tufail, P.E., BCEE 701 Loyola Avenue Suite 801 New Orleans, LA 70113	Provided field investigation, laboratory testing, and geotechnical engineering services to aid in the construction of 350 feet of new gravity sewer line between the G6-2 Lift Station and the Galleria Lift Station in Metairie, LA. Consisted of two undisturbed soil borings to a depth of 40 feet below existing ground surface, laboratory testing including strength and classification tests, and geotechnical evaluations to develop the following recommendations: pipeline bedding and backfill recommendations, excavation and general dewatering recommendations, estimates of settlement, site preparation recommendations, and the preliminary design for a temporary retaining system.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	N/A	\$9,850



## TEC Professional Services Questionnaire

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility</b>	
<b>Bayou Lafourche Pump Station (Donaldsonville, LA)</b>  Bayou Lafourche Fresh Water District Ben Malbrough, P.E. (985) 447-7155 ben.malbrough@blfwd.org	This project consisted of improving the capacity of the existing pumping station in Donaldsonville, LA to a minimum of 1,00 cfs. and to introduce enough fresh water from the Mississippi River into Bayou Lafourche in order to benefit the bayou's historical flow area. Ardaman performed 9 soil borings to depths ranging from 85 to 120 feet below surface level. Laboratory tests were performed including standard penetration testing, moisture content determinations, unit strength testing. Ardaman performed all geotechnical engineering analyses for the pump station structure. This project is currently in construction and Ardaman is providing geotechnical engineering support during construction.	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
Ongoing	N/A	\$118,425

<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>I-12 to Bush (Bush, LA)</b>  LADOTD 1201 Capitol Access Road Baton Rouge, LA 70802	This project consisted of the design of a new highway which ties into I-12/LA 434 Interchange (Exit 74) and proceeds northerly along LA 434 for approximately 2.5 miles then leaves the existing highway and proceeds on new alignment until it connects with an abandoned railroad corridor approximately 1.7 miles north of LA 36. The alignment then follows the abandoned railroad alignment north and ties into the intersection of LA 40 and LA 41. The project was divided into three district project segments for which Ardaman was on the teams selected for Segments 2 and 3. Segment 2 consisted of an 8-mile alignment between LA 36 and LA 435 including two bridge structures and 8 culvert structures. The field investigation included field reconnaissance including access and gaining rights of entry, completing utility locations, locating/staking boring locations, and developing a plan for the initial mobilization of equipment to the site and mobilization between sites. The project consisted of 32 deep soil borings, 10 intermediate culvert borings, and 88 shallow roadway borings, sampling, and laboratory testing along the alignment. Global Positioning System (GPS) data was collected at each soil boring location along with groundwater level readings. Soil boring logs were created in LADOTD format. Ardaman also provided geotechnical analyses and recommendations according to LRFD guidelines that included recommended pile capacities, culvert bearing capacities, embankment settlement analyses, and a pile data table.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2023	\$3,197,000	\$460,000





## TEC Professional Services Questionnaire

<b>PROJECT NO. 6</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>I-12 Widening, Highways 190 to 59 (Bush, LA)</b>  LADOTD 1201 Capitol Access Road Baton Rouge, LA 70802	Ardaman conducted a geotechnical investigation for interstate widening project to rehabilitate approximately 4 miles of I-12 to the median side from a four lane freeway to a six lane freeway section in both the East and Westbound directions. US 190 and LA 59 Interchanges were included in the project.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018	N/A	\$315,075

<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Geotechnical Investigation for Gert Town Natatorium and NOPD 2nd District</b>  City of New Orleans Gert Town Natatorium & NOPD 2nd District Police Station 1300 Perdido Street, Ste. 6E15 New Orleans, LA 70112 Rodney A. Dionisio, Project Manager	Conducted a geotechnical investigation and provided engineering services for Gert Town Natatorium and NOPD 2nd District Police Station.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015	N/A	\$30,800



## TEC Professional Services Questionnaire

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>St. Roch Neighborhood Pavement &amp; Infiltration</b>  City of New Orleans Jennifer Larmeu 1300 Perdido Street, Ste. 6W03 New Orleans, LA 70112	Conducted a geotechnical investigation consisting of 17 soil borings for pavement design and 7 soil borings for infiltration tests. Laboratory tests were conducted and engineering analyses performed for the drainage upgrade and roadway improvement project.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2016	N/A	\$26,500

<b>PROJECT NO. 9</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>SELA 07C &amp; SELA 07B Pump to the River 84" Discharge Tubes, Levee Crossing &amp; Discharge Basin</b> <b>(Jefferson Parish, LA)</b>  Jefferson Parish c/o Hartman Engineering, Inc. Scott Chehardy 527 W. Esplanade Avenue, Ste. 300 Kenner, LA 70065	The project consisted of 5 major structures including: intake culverts, a pump station with three drainage pumps, discharge pipes, a levee crossing (70 ft. x 55 ft. in plan dimensions of box culverts, with a new levee and sheet piling), and an outfall structure/discharge basin. Ardaman reviewed the geotechnical report, provided plans and specifications, and reviewed the contractor's submittals for the design and installation of piles, shoring, and dewatering.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018	N/A	\$16,657



## TEC Professional Services Questionnaire

**L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.**

### PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;"><b>Mid-Breton - Sediment Diversion</b> (Plaquemines Parish, LA)</p> <p>Coastal Protection and Restoration Authority (CPRA) 150 Terrace Avenue Baton Rouge, LA 70802</p> <p>Brad Barth, P.E. 504-280-2411 Brad.Barth@la.gov</p>	<i>Please See Below.</i>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2028	N/A	\$2,900,000

The Mid-Breton Sediment Diversion will reconnect the Mississippi River to the deteriorating deltaic wetlands in the Breton Sound Basin. The project will be located in Plaquemines Parish, Louisiana, on the east side of the Mississippi River and is intended to divert sediment rich water from the Mississippi River to create new land in the Breton Sound Basin. This project will include a gated diversion structure in line with a realigned segment of the Mississippi River Levee, diversion channel and conveyance levees, inlet and outfall channels, and state highway bridge. Ardaman is performing the geotechnical investigation for the project including field investigations such as soil borings and CPTS and engineering analyses such as global stability, settlement, seepage, and pile capacity.

Ardaman is also supporting the permit process. Ardaman and Associates, Inc. serves as geotechnical consultant to Stantec for this project. Thus far the field operations have been inclusive of soil borings and CPTs in the Mississippi River batture, the protected side of the Mississippi River Levee, and within the marsh area beyond the Hurricane Protection back levee. The marsh area investigations included soil borings, CPTs, and vane shear testing to support the design of the outfall channel and proposed marsh creation areas. Ardaman has conducted geotechnical engineering analyses inclusive of stability, seepage, and settlement analyses. The project is currently in the 60% Design Phase. This ongoing project requires close coordination with the USACE New Orleans District to ensure all proposed designs conform to the current HSDRRS Design Guidelines.



*Rousset, Project Manager; Woodward, Sr. Geotech. Engr.; Cali, Sr. Geotech. Engr.; Cimino, Proj. Engr.; Jewell, Proj. Engr.; Anthony, Sr Driller*



## TEC Professional Services Questionnaire

**M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.**

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1.  N/A		
2.		
3.		
4.		

**N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.**

Ardaman's South Louisiana operations have a staff of approximately 80 personnel who perform hundreds of geotechnical investigations annually. Virtually all investigations include shallow and deep (as deep as 300+ feet) borings, CPT, Geoprobe, instrumentation and monitoring, laboratory tests, geotechnical engineering analyses and report preparation. Our Louisiana professional staff includes eight Registered Professional Engineers (1 Ph.D., 3 M.S.) and seven engineer interns (5 M.S.). Although all engineering services are anticipated to be performed by our local South Louisiana staff, our large contingent of specialized experts at the Ardaman's Technical Center located in Orlando, Florida is available for support as needed. The personnel resources at this center include over 30 engineers (geotechnical, civil, coastal, and environmental), most of whom hold advanced degrees. Many of the Ardaman personnel in Florida actively participate in many projects in Louisiana and throughout the Gulf Coast area.

**O. To the best of my knowledge, the foregoing is an accurate statement of facts.**

**Signature:**  **Print Name:** Robert Rousset, P.E.

**Title:** Vice President | Regional Manager **Date:** July 17th, 2024

